

FROM THE DIRECTOR



Xander Wehrens, MD, PhD

Dear CVRI Members,

We are living in an unprecedented time that presents new challenges daily, on a personal and global level. The COVID-19 pandemic has created a halt in our everyday lives and has forced the world to focus on the health and well-being of others in their communities. Major events have been canceled, businesses have shut down, classes are being taught online, people are encouraged to stay at home and visit with their loved ones virtually. Like many other health institutions, the CVRI has rescheduled the 8th Annual Symposium in support of this global effort: reduce the spread of the virus.

The mission of the Cardiovascular Research Institute at Baylor College of Medicine is to serve as an avenue for increased collaborative research efforts. Now more than ever, we are reminded how important it is to serve our community and improve the development of cutting edge technologies and increase clinical awareness.

In a recent interview, the CVRI's Associate Director Biykem Bozkurt, MD, PhD, describes the urgency to educate our frontline providers to better understand the COVID-19 virus. Serving as a local, regional, and global leader who advocates continuous training and development, Dr. Bozkurt emphasizes the CVRI's mission to increase research and integration of multi PI collaborations to advance the care of cardiovascular disease and heart failure in relation to COVID-19.

The CVRI and Baylor College of Medicine will continue to contribute and support the global effort of defeating COVID-19 and future epidemics. We appreciate your continued support of the Cardiovascular Research Institute, and look forward to seeing you in the near future.

Thank you,

Xander Wehrens, MD, PhD

FACULTY HIGHLIGHT

CVRI Leadership's Impact and Insight on COVID-19



Biykem Bozkurt, MD, PHD

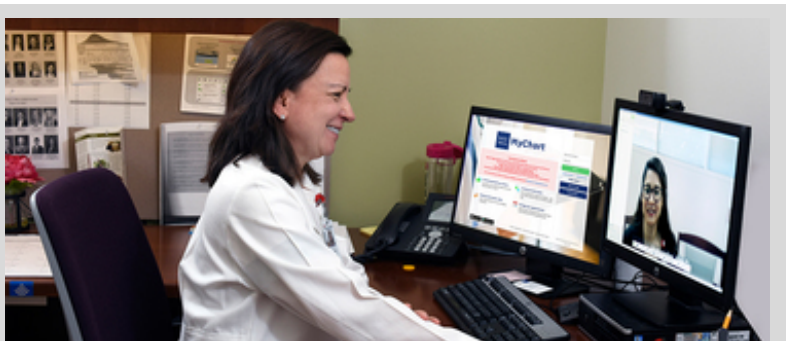
CVRI's Associate Director Dr. Biykem Bozkurt highlights urgent efforts to serve and guide patients as clinicians and to understand the COVID -19 virus as educators and scientists.

Biykem Bozkurt, MD, PhD, is the Medical Care Line Executive (Medicine Department Chair) and Director of the Winters Center for Heart Failure at the Michael E. DeBakey VA Medical Center.

She also serves as the Vice Chair of the Department of Medicine, the Mary and Gordon Cain Chair, Professor of Medicine, and Associate Director of the Cardiovascular Research Institute at Baylor College Medicine. Her national roles include President of the Heart Failure Society of America, Senior Associate Editor of Circulation, and Heart Failure Section Editor for the Journal of the American College of Cardiology. She currently is the Chair of the Heart Failure Council at the American College of Cardiology and Chair of the ACCF/AHA Task Force for Clinical Data Standards.

As an executive leader, Dr. Bozkurt collaboratively works on several task forces to shape, plan and facilitate clinical readiness for COVID-19 at Baylor College of Medicine and satellite facilities (MEDVAMC, BSLMC, SLEH, TCH). The task force addresses the need for, "care delivery, patient management, new models of care and the safety and protection of health care workers." Her local task force effort involves multiple meetings with regional groups at the department level and institutional level to implement plans such as "readiness for surge and appropriate utilization of management strategies." From a Division of Cardiology perspective and in an effort to increase hospital capacity for the anticipated surge in COVID cases, Dr. Bozkurt's states that, "every institution has a surge plan in place that will initially deploy critical certified providers and then expand the critical care certified to cardiologists, cardiac surgeons and other clinicians."

A second task force involvement is implementing alternative models of care in support of the safe distancing and flattening the curve initiative. Elective procedures are postponed. Clinic visits are changed to non-face to face encounters. As part of the frontline team, Dr. Bozkurt and BCM/VA cardiology have embraced telehealth services. She serves her patients via video conferencing, e-consults, and telephone. The VA has consistently used this non-face-to-face method in about 20% of encounters, but this has increased considerably at all sites during the COVID-19 pandemic.



Telehealth at BCM

She has also been a vocal supporter for more protection of front line healthcare workers. On March 30, 2020, Dr. Bozkurt along with other organizations sent an open letter to Congress urging for federal action to address medical equipment shortages.

**McNair clinical staff
demonstrate
social distancing.**



Baylor St. Luke's Cath Lab Team

Further impact of this new alternative care model is the learning and training of cardiovascular fellows, residents, medical students, and graduate students. BCM Cardiology and the CVRI continue to adapt to new paradigms of education, which include providing PhD courses virtually through Zoom and Blackboard. Dr. Bozkurt, Chair of Medicine at the MEDVAMC expressed, "While residents and fellows are still front-line responders, the dissemination of information to trainees is now supplemented with a virtual curriculum of online simulation and training".

The other platform that the CVRI community has been spearheading is widespread national guidance on cardiovascular management. Dr. Bozkurt's involvement as President of the HFSA, and partnerships with AHA and ACC allow her to create credible, authoritative cardiovascular management guidelines for patients, healthcare teams, and the public. Patient initiatives are focused on awareness, advocacy, and education.

Below are a few of her national statements making a difference in the care of COVID-19 patients.

- On March 6th as part of the ACC science and quality committee, Dr. Bozkurt reviewed and approved [ACC's COVID-19 Clinical Guidance](#) for the CV Care Team.
- On March 17th, Dr. Bozkurt along with ACC and AHA released a statement recommending [continued use of RAAS](#) antagonists with COVID patients as there is a currently a lack of research yielding beneficial or adverse outcomes.
- On April 2020, as [HFSA president](#), Dr. Bozkurt provided further guidance and resources for patients, clinicians and researchers.

At a global level, Dr. Bozkurt is currently coordinating a video series with Circulation, "[COVID /Updates from the Frontlines](#)". Baylor's cardiovascular fellows, as well as various local and regional cardiovascular fellows, are interviewing international cardiologists in COVID-19 global hot spots. Its mission is to provide insights, education, and real time experience in the treatment of COVID-19 patients with underlying cardiovascular co-morbidities.

Dr. Bozkurt is eager to point out wide innovations taking place at BCM. Several Baylor faculty have authored or co-authored position papers, statements, case series, and analysis of their experience with COVID-19. Quite a few of these papers are considered as important, impactful and definitive perspectives and are continually shaping the understanding of COVID-19.

The following is a listing of current research innovations at BCM.

- The National School of Tropical Medicine and the Center for Vaccine Development are globally recognized institutions. Both Dr. Maria Elena Bottazzi and Dr. Peter Hotez, are seeking to [develop a vaccine for SARS-CoV-2](#).
- BCM with Dr. Meredith Reyes, Associate Professor of Pathology and the Gulf Coast Regional Blood Center, will come together as part of a [transfusion study](#). Convalescent plasma will be collected COVID-19 survivors and in turn will be provided it to the most critically ill patients with COVID-19 infection.
- Dr. Hana El-Sahly, Associate Professor Molecular Virology & Microbiology and Medicine and the Principal Investigator for the Vaccine and Treatment Evaluation Unit at Baylor, is the principal investigator for a [treatment trial](#) of COVID-19 patients.
- Dr. Dr. Pedro Piedra's laboratory is developing [an antibody test](#) to identify recent or past infections with SARS-CoV-2.

Dr. Bozkurt stresses the need for further widespread study on COVID-19 consequences in patients with preexisting heart disease and its effects on heart function. The CVRI is an important integrator of such research initiatives with increased communication, partnership, multiple PI grant applications, and several collaborative grant submissions to AHA. Dr. Bozkurt and the CVRI are also in the process of creating a combined COVID-19 registry at BCM and the TMC. Currently there are opportunities available to all investigators for patient treatment strategies as part of randomized clinical trials at BCM and TMC.

Some notable research studies on treatment strategies are being led by CVRI investigators. An important concept studied is that cardiac inflammatory cytokines play a major role in heart failure and cardiomyopathy caused by COVID-19. The CVRI has integrated multidisciplinary collaborative research groups that examine the role of inflammation and cytokines. Moreover, the Center for Translational Inflammatory Research at the MEDVAC is looking at options to profile cytokine levels or inflammatory markers in blood samples from COVID-19 patients to determine whether it could be used for targeted research based therapies. In the realm of basic and translational science, investigators with a track record of looking at both arrhythmia and cardiac myocyte physiology are currently examining the possibility of new treatment options for arrhythmias commonly seen in COVID-19 patients.

The Cardiovascular Research Institute aims to form collaborations with basic science investigators looking at cellular changes caused by cell death, heart failure, and arrhythmias. Dr. Bozkurt and the CVRI are committed to organizing widespread clinical research studies focused on COVID-19 patients to create a better understanding of changes that occur in the heart and blood, and most importantly to discover new applications for treatment. For Dr. Bozkurt, the outbreak of COVID-19 evokes a life-long calling to care and educate patients and the public; re-invigorates the urgency for scholarly research and fuels the tireless pursuit of innovation.

HONORS AND AWARDS

Congratulations!

- BCM and UH collaborative pilot grants awarded funding to Dr. Na Li, Assistant Professor of Cardiovascular Research at Baylor, and Dr. Bradley K. McConnell, Associate Professor of Pharmacology at UH. They will work on a project titled, "Reprogrammed Cardiac Progenitor Cells into Cardiac Conduction Cells for Heart Repair."
- CPRIT awarded Dr. Joshua Wythe, Assistant Professor of Molecular Physiology & Biophysics, a \$899,847 grant for "Targeting Endothelial Transcriptional Networks in Glioblastoma."
- CVRI's Theme Leader, Dr. Christie Ballantyne was awarded a \$6 million grant by the The National Institutes of Health Heart, Lung, and Blood Institute to study how CHIP contributes to atherosclerotic cardiovascular diseases.
- Dr. Ourania Preventza, Professor in the Division of Cardiothoracic Surgery was named president-elect of the International Society of Endovascular Specialists (ISEVS). Dr. Preventza is the first woman named president-elect of this society. She was also named Associate Editor of "Operative Techniques in Thoracic and Cardiovascular Surgery: A Comparative Atlas," one of the official journals of the American Association for Thoracic Surgery (AATS).
- Dr. Elena Ocampo, Assistant Professor of Pediatrics – Cardiology received BCM's Women of Excellence Award. Dr. Joseph S. Coselli, Professor, Vice-Chair and Chief of the Division of Cardiothoracic Surgery received the Leader of Distinction Award from the Marfan Foundation.
- Dr. Shawn Groth, Associate Professor in the Division of General Thoracic Surgery, was appointed to the editorial board of the Journal of Thoracic and Cardiovascular Surgery.
- Dr. Kenneth L. Mattox, Distinguished Service Professor in the Division of Cardiothoracic Surgery, was inducted as a member of the American College of Surgeons Academy of Master Educators.
- Dr. Joseph L. Mills Sr., Professor and Chief of the Division of Vascular Surgery and Endovascular Therapy, was named associate editor of the European Journal of Vascular and Endovascular Surgery.
- Dr. Ravi K. Ghanta, Associate Professor of Surgery, received \$15,000 in funding from an FY20 Pilot Award through the Baylor College of Medicine Cardiovascular Research Institute. His project is titled "Immune Evasive Alginate Encapsulation for Sustained Cell Therapy for Heart Failure."
- Dr. Ying Shen, Professor of Surgery in the Division of Cardiothoracic Surgery and Director of the Aortic Diseases Research Laboratory, and Dr. Scott LeMaire, Professor of Surgery and Molecular Physiology & Biophysics, received a three-year, \$750,000 Collaborative Sciences Award from the American Heart Association to fund their multidisciplinary (radiology and surgery) study on early detection of aortic degeneration using nanoparticle contrast-enhanced computed tomography (CT) imaging.
- Michael E. DeBakey Department of Surgery named as a participating site for a "CTSNet" trial. This new project is "Anti-coagulation for New-Onset Post-Operative Atrial Fibrillation after CABG" (CTSNet PACES) Trial. Dr. Todd K. Rosengart will serve as site principal investigator, and be assisted by co-investigator Dr. Ravi K. Ghanta, Associate Professor in the Division of Cardiothoracic Surgery.
- Dr. Kenneth Liao, Professor and Lester and Sue Smith Endowed Chair of Surgery, will receive over \$3.5 million in funding from the Brockman Charitable Trust, for his study titled, "Increasing Heart Transplantation by Using Organs from Donors after Circulatory Death."

NEW CVRI ADMINISTRATIVE TEAM



Sousan Arab is the new CVRI Administrator. She has an extensive background in business administration and has been with Baylor for over three years. Sousan manages the administrative duties of the CVRI in the areas of operations, financial management, annual planning, and communications.



Lane Carpio is the new business operations coordinator. Her background is in event management along with years of experience in patient and student education. Lane supports CVRI administrative operations to include education and scientific programs.

Baylor
College of
Medicine

SAVE THE DATE & CALL FOR ABSTRACTS

Cardiovascular Research Institute
8th Annual Symposium

Wednesday, April 7, 2021

Cullen Auditorium/Rayzor Lounge
1 Baylor Plaza
Houston, TX 77030



Featured Keynote Speaker

Alan Daugherty, PhD, DSc

University of Kentucky

Director, Saha Cardiovascular Research Center

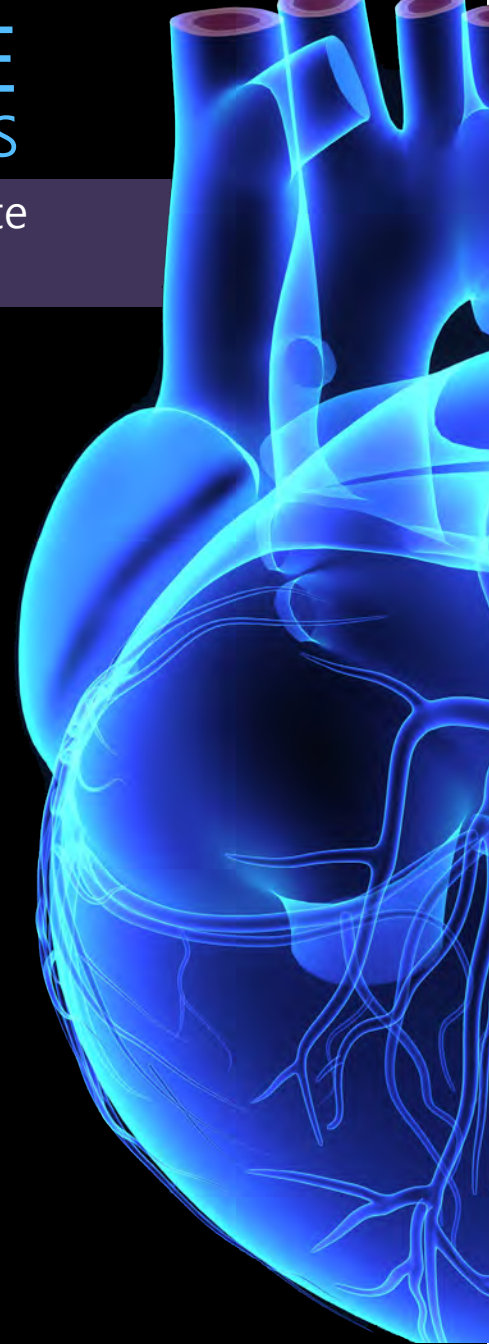
Gill Foundation Chair, Preventive Cardiology

Chair, Department of Physiology

Senior Associate Dean for Research

Associate Vice President for Research

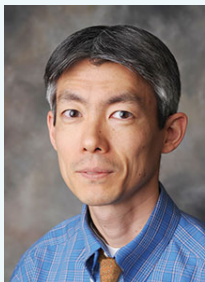
*Due to the COVID -19 pandemic,
the CVRI Symposium was postponed to 2021.



CVRI FALL 2020 SEMINAR SERIES

The Cardiovascular Research Institute at Baylor College of Medicine conducts a monthly seminar series during the spring and fall of each year open to all faculty and students who are interested.

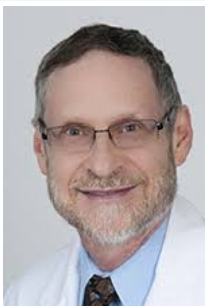
Wednesdays, 12 PM to 1 PM
Room 301A, Cullen Building
One Baylor Plaza
Lunch and Refreshments Served



August 26, 2020

Speaker: Michihisa Umetani, Ph.D.

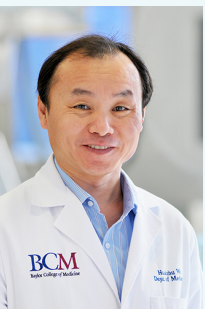
Title: Assistant Professor, Department of Biology and Biochemistry
Affiliation: University of Houston



September 16, 2020

Speaker: Stanley Nattel, M.D.

Title: Professor, Department of Medicine
Affiliation: University of Montreal



October 21, 2020

Speaker: Huaizhu Wu, M.D.

Title: Associate Professor, Department of Medicine
Affiliation: Baylor College of Medicine



November 18, 2020

Speaker: Vasanth Vedantham, M.D., Ph.D.

Title: Associate Professor, Department of Medicine
Affiliation: University of California, San Francisco



December 2, 2020

Speaker: Aarif Khakoo, M.D.

Title: Head of Drug Development
Affiliation: Calico Life Sciences
**Mark L. Entman, MD, Distinguished Lecture in Cardiovascular Research*

*Due to the Covid -19 pandemic, the remaining spring 2020 seminars were canceled.

The Cardiovascular Research Institute has been actively working to expand training programs in cardiovascular sciences. This academic year, the CVRI offers 3 graduate school courses that are open to PhD students, postdocs, and clinical trainees. Due to the COVID-19 pandemic, all lectures are currently offered by Zoom and slides are on Blackboard.

- The 3rd term course 'Cardiovascular Diseases' successfully completed earlier this year.
- The current 4th term course is, "Advanced Topics and Cardiovascular Physiology".
- The next 5th term course, "Advanced Topics in Cardiovascular Disease Pathogenesis" is available to all who want to register, audit or just listen.

Lectures are held Monday -Thursday,
9 AM - 10 AM

May 18, 2020 - July 9, 2020

Click to enter the [zoom meeting](#).
Meeting ID: 030904

For those who do not want course credit and are just interested in the topic, these lectures are available at no cost. The lecture titles are listed below. Please join us in Zoom.
This is one of the services provided by CVRI to promote education in cardiovascular sciences.

Advanced Topics in Cardiovascular Disease Pathogenesis

Course Schedule:

Date	Lecture Title	Instructor
05/18/20	Vascular Anatomy	Joshua Wythe
05/19/20	Pathogenesis of Peripheral Artery Disease and Deep Venous Thrombosis	Waleed Ageedi
05/20/20	Pathophysiology of Renovascular Disease and HTN Due to Kidney Disease	Sai Saridey
05/21/20	Plaque Rupture	Yochai Birnbaum
05/26/20	Risk Factors & Lipid Management	Salim S. Virani
05/27/20	Epidemiology and Pathogenesis of Hypertension	Bryan Tucker
05/28/20	Vascular Development	Joshua Wythe
06/01/20	Vessels of the Heart	Xinchun Pi
06/02/20	Congenital Vascular Abnormalities	Xinchun Pi
06/03/20	Hemoglobinopathies	Neil Hanchard
06/04/20	Inherited Bleeding Disorders	Hyojeong Han
06/08/20	Hemostasis - Coagulation	Miguel Cruz
06/09/20	Hemostasis - Platelets	Vinod Vijayan
06/10/20	Acquired Bleeding/Coagulation Disorders	Miguel Cruz
06/16/20	Microcirculation 1	David Durgan
06/17/20	Microvascular Water and Solute Transport	David Durgan
06/18/20	Genetics of Hypertension	Neil Hanchard/Ian Copeland
06/22/20	Hypertension and Microbial- Derived Metabolites	David Durgan
06/23/20	Lipids and Lipoproteins	William Lagor
06/24/20	Cholesterol Metabolism	William Lagor
06/25/20	Monogenic Lipid Disorders	Chris Walkey
06/29/20	Role of Lipids In Atherosclerosis	William Lagor
06/30/20	Endothelial Dysfunction In Atherosclerosis	Xinchun Pi
07/01/20	Monocytes/Macrophages In Atherosclerosis	Huaizhu Wu
07/02/20	Pathogenesis of Stroke	Louise McCullough
07/06/20	Vascular Aneurysms	Ying Shen
07/08/20	Neural Control of Breathing and Heartbeat	Russell Ray
07/09/20	Risk Factors & Treatment of Stroke	Bharti Manwani



Publications 2020

Incidence and Outcomes of Acute Coronary Syndrome After Transcatheter Aortic Valve Replacement.

Mentias A, Desai MY, Saad M, Horwitz PA, Rossen JD, Panaich S, Elbadawi A, Abbott JD, Sorajja P, Jneid H, Tuzcu EM, Kapadia S, Vaughan-Sarrazin M. **JACC: Cardiovascular Interventions**. 2020 April 27 ;13 (8), pp. 938-950.

Racial Differences in Malignant Left Ventricular Hypertrophy and Incidence of Heart Failure: A Multicohort Study.

Lewis AA, Ayers CR, Selvin E, Neeland I, Ballantyne CM, Nambi V, Pandey A, Powell-Wiley TM, Drazner MH, Carnethon MR, Berry JD, Seliger SL, DeFilippi CR, de Lemos JA. **Circulation**. 2020 Mar 24;141(12):957-967.

Palliative care use in patients with acute myocardial infarction.

Elgendy IY, Elbadawi A, Sardar P, Kolte D, Omer MA, Mahmoud AN, Jneid H, Keeley EC, Bhatt DL. **J Am Coll Cardiol**. 2020 Jan 7;75(1):113-7.

Aberrant expression of a non-muscle RBFOX2 isoform triggers cardiac conduction defects in myotonic dystrophy.

Misra C, Bangru S, Lin F, Lam K, Koenig SN, Lubbers ER, Hedhli J, Murphy NP, Parker DJ, Dobrucki LW, Cooper TA, Tajkhorshid E, Mohler PJ, Kalsotra A. **Dev Cell**. 2020 Mar 23;52(6):748,763.

Rivaroxaban compared with standard anticoagulants for the treatment of acute venous thromboembolism in children: A randomised, controlled, phase 3 trial.

Male C, Lensing AWA, Palumbo JS, Kumar R, Nurmeev I, Hege K, Bonnet D, Connor P, Hooimeijer HL, Torres M, Chan AKC, Kenet G, Holzhauser S, Santamaría A, Amedro P, Chalmers E, Simioni P, Bhat RV, Yee DL, Lvova O, Beyer-Westendorf J, Biss TT, Martinelli I, Saracco P, Peters M, Kállay K, Gauger CA, Massicotte MP, Young G, Pap AF, Majumder M, Smith WT, Heubach JF, Berkowitz SD, Thelen K, Kubitz D, Crowther M, Prins MH, Monagle P, Molinari AC, Nowak Göttl U, Chain J, Robertson J, Thom K, Streif W, Schwarz R, Schmitt K, Grangl G, Van Damme A, Maes P, Labarque V, Petrilli A, Loggeto S, Azeka E, Brandao L, Le D, Sabapathy C, Giordano P, Wu R, Ding J, Huang W, Mao J, Lähteenmäki P, Decramer S, Bernig T, Chada M, Chan G, Kally K, Nolan B, Revel-Vilk S, Tamary H, Levin C, Tormene D, Abbattista M, Artoni A, Ikeyama T, Inuzuka R, Yasukochi S, Morales Soto M, Solis Labastida KA, Suijker MH, Bartels M, Tamminga RY, Van Ommen CH, Te Loo DM, Anjos R, Zubarovskaya L, Popova N, Samochatova E, Belogurova M, Svirin P, Shutova T, Lebedev V, Barbarash O, Koh PL, Mei JC, Podracka L, Berrueto R, Fernandez MF, Frisk T, Grunt S, Rischewski J, Albisetti-Pedroni M, Antmen A, Tokgoz H, Karakas Z, Motwani J, Williams M, Grainger J, Payne J, Richards M, Baird S, Bhatnagar N, Aramburo A, Crary S, Wynn T, Carpenter S, Ahuja S, Goldenberg N, Woods G, Godder K, Scott-Emuakpor A, Roach G, Raffini L, Shah N, Shah S, Thornburg C, Zia A, Berkow R. **Lancet Haematol**. 2020 Jan;7(1):18-27.

Expanding traditional cardiac rehabilitation in the 21st century.

Lavie CJ, Pack QR, Levine GN. **J Am Coll Cardiol**. 2020 April 7;75 (13):1562-4.

Prevention of connexin-43 remodeling protects against duchenne muscular dystrophy cardiomyopathy.

Himelman E, Lillo MA, Nouet J, Patrick Gonzalez J, Zhao Q, Xie L, Li H, Liu T, Wehrens XHT, Lampe PD, Fishman GI, Shirokova N, Contreras JE, Fraidenraich D. **J Clin Invest**. 2020 Jan 7;130(4):1713-27.

Association of Isolated Diastolic Hypertension as Defined by the 2017 ACC/AHA Blood Pressure Guideline with Incident Cardiovascular Outcomes.

McEvoy JW, Daya N, Rahman F, Hoogeveen RC, Blumenthal RS, Shah AM, Ballantyne CM, Coresh J, Selvin E. **JAMA**. 2020 Jan 28;323(4):329-38.

Substance and substrate: LVEF and sex subgroup analyses of PARAGON-HF and PARADIGM-HF trials.

Bozkurt B, Ezekowitz J. **Circulation**. 2020 Feb 4;141(5), 362-366.

Prediction of individualized lifetime benefit from cholesterol lowering, blood pressure lowering, antithrombotic therapy, and smoking cessation in apparently healthy people .

Jaspers NEM, Blaha MJ, Matsushita K, van der Schouw YT, Wareham NJ, Khaw KT, Geisel MH, Lehmann N, Erbel R, Jöckel KH, van der Graaf Y, Verschuren WMM, Boer JMA, Nambi V, Visseren FLJ, Dorresteijn JAN. **Eur Heart J**. 2020 Mar 14;41(11):1190-1199.

Integrating Mouse and Human Genetic Data to Move beyond GWAS and Identify Causal Genes in Cholesterol Metabolism.

Li Z, Votava JA, Zajac GJM, Nguyen JN, Leyva Jaimes FB, Ly SM, Brinkman JA, De Giorgi M, Kaul S, Green CL, St Clair SL, Belisle SL, Rios JM, Nelson DW, Sorci-Thomas MG, Lagor WR, Lamming DW, Eric Yen CL, Parks BW. **Cell Metab**. 2020 Apr 7;31(4):741-754.

Critical Role of Cytosolic DNA and Its Sensing Adaptor STING in Aortic Degeneration, Dissection, and Rupture.

Luo W, Wang Y, Zhang L, Ren P, Zhang C, Li Y, Azares AR, Zhang M, Guo J, Ghaghada KB, Starosolski ZA, Rajapakshe K, Coarfa C, Li Y, Chen R, Fujiwara K, Abe JI, Coselli JS, Milewicz DM, LeMaire SA, Shen YH. **Circulation**. 2020 Jan 7;141(1):42-66.

The Deep Genome Project.

Lloyd KCK, Adams DJ, Baynam G, Beaudet AL, Bosch F, Boycott KM, Braun RE, Caulfield M, Cohn R, Dickinson ME, Dobbie MS, Flenniken AM, Flicek P, Galande S, Gao X, Grobler A, Heaney JD, Herauld Y, DeAngelis MH, Lupski JR, Lyonnet S, Mallon AM, Mammano F, MacRae CA, McInnes R, McKelvie C, Meehan TF, Murray SA, Nutter LMJ, Obata Y, Parkinson H, Pepper MS, Sedlacek R, Seong JK, Shiroishi T, Smedley D, Tocchini-Valentini G, Valle D, Wang CKL, Wells S, White J, Wurst W, Xu Y, Brown SDM. **Genome Biol**. 2020 Feb 3; 21 (1), art. no. 18.

FUNDING OPPORTUNITIES

NHLBI COVID-19 RELATED FUNDING OPPORTUNITIES

PA-18-591 Administrative Supplements to Existing NIH Grants and Cooperative Agreements
(Parent Admin Supp Clinical Trial Optional)

PA-18-935 Urgent Competitive Revision to Existing NIH Grants and Cooperative Agreements
(Urgent Supplement - Clinical Trial Optional)

The CVRI has been advised by the NHLBI that principal investigators are requested to contact the program officer of their currently funded grant(s) to request preapproval prior to applying to these supplements. It is recommended to provide key information about the parent grant (grant number, title, major scope) and how the supplement would be a logical extension of the parent grant. Include proposed specific aims for the supplement in the communication with the PO. Please click on the link for [FAQ](#) .

AMERICAN HEART ASSOCIATION FUNDING OPPORTUNITIES

2020-2021 AHA RESEARCH FUNDING APPLICATION DEADLINES* for awards that will begin in calendar year 2021

Program	Letter of Intent Deadline (If required)	Application Deadline	Award Start Date
AHA Predoctoral Fellowship		Wed, Sept 9, 2020	Jan 1, 2021
AHA Postdoctoral Fellowship		Thurs, Sept 10, 2020	Jan 1, 2021
Institutional Undergraduate Student Training Program		Tues, Sept 15, 2020	Jan 1, 2021
Merit Award	Required by Thurs, Oct 1, 2020	Invited Applicants: Tues, Nov 10, 2020	April 1, 2021
Established Investigator Award	Required by Wed, Oct 14, 2020	Invited Applicants: Thurs, Jan 14, 2021	April 1, 2021
Career Development Award		Thurs, Dec 3, 2020	April 1, 2021
AHA Institutional Research Enhancement Award (AIREA)		Tues, Jan 12, 2021	April 1, 2021
Innovative Project Award	Required by Tues, Nov 3, 2020	Invited Applicants: Tues, Feb 2, 2021	July 1, 2021
Transformational Project Award		Tues, Feb 16, 2021	July 1, 2021
Collaborative Sciences Award	Required by Thurs, Jan 7, 2021	Invited Applicants: Tues, March 16, 2021	July 1, 2021
Strategically Focused Research Funding Opportunities			
AHA and Enduring Hearts Research Awards in Pediatric Heart Transplantation	Required by Mon, June 1, 2020	Invited Applicants: Tues, Sept 1, 2020	Jan. 1, 2021
American Stroke Association-Bugher Foundation Centers of Excellence in Hemorrhagic Stroke	Thurs, July 16, 2020	Thurs, Aug 27, 2020	Jan 1, 2021
AHA and Children's Heart Foundation Congenital Heart Defects Research Awards		Tues, Sept 22, 2020	Jan 1, 2021
Cardio-Oncology Strategically Focused Research Network	Tues, Oct 12, 2020	Tues, Dec 8, 2020	April 1, 2021

*Deadlines are subject to change.

CVRI Themes and Leadership

Congenital Developmental Heart Disease



Mary Dickinson, PhD

Physiology

Member, Executive Committee



Daniel Penny, MD, PhD, MHA

Pediatrics/Cardiology

Member, Executive Committee

Coronary Artery Disease, Atherosclerosis, Ischemia



Christie Ballantyne, MD

Medicine/Cardiology

Member, Executive Committee



Changyi Johnny Chen, MD, PhD

Surgery

Theme Leader

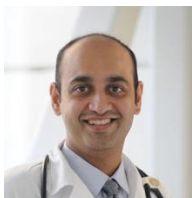
Aortopathy, Valvular Heart Disease



Scott LeMaire, MD

Surgery

Member, Executive Committee



Vijay Nambi, MD

Medicine/Cardiology

Theme Leader

Arrhythmias, Channelopathies



Xander Wehrens, MD, PhD

Physiology, Medicine

CVRI Director

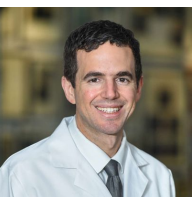
Cardiac Regeneration, Stem Cells



James Martin, MD, PhD

Physiology

Member, Executive Committee



Gabriel Loor, MD, FACC

Surgery

Member, Executive Committee

Heart Failure, Cardiomyopathy



Biykem Bozkurt, MD

Medicine/
Cardiology

CVRI Associate Director



Tom Cooper, MD

Pathology

Member, Executive Committee



Mark Entman, MD

Medicine, Cardiovascular Sciences

Member, Executive Committee

Email cvri@bcm.edu to sign up for free membership and get notified of upcoming events and opportunities!

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www.bcm.edu/cvri